

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/006017

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl⁷ C07D233/70, A61K31/357, 31/416, 31/4178, 45/00, A61P35/00, 43/00, C07D305/14, 405/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int. Cl⁷ C07D233/70, A61K31/357, 31/416, 31/4178, 45/00, A61P35/00, 43/00, C07D305/14, 405/14

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS (STN), CA (STN), CPlus (STN), MEDLINE (STN), REGISTRY (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 5952311 A (Iowa State University Research Foundation Inc., USA), 14 September, 1999 (14.09.99), & JP 07-504430 A & EP 675955 A & WO 94/14956 A1	7, 8 1-6
X A	US 5786198 A (Iowa State University Research Foundation), 28 July, 1998 (28.07.98), & JP 07-504430 A & EP 675955 A & WO 94/14956 A1	7, 8 1-6
A	US 6160024 A (Iowa State University Research Foundation, Inc., USA), 12 December, 2000 (12.12.00), & JP 07-504430 A & EP 675955 A & WO 94/14956 A1	1-8

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search
13 April, 2005 (13.04.05)

Date of mailing of the international search report
05 July, 2005 (05.07.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Faxsimile No.

Telephone No.

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PCT/JP2005/006017

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 4-279569 A (MANAC Inc.), 05 October, 1992 (05.10.92), (Family: none)	1-8
A	JP 63-14788 A (Meiji Milk Products Co., Ltd.), 21 January, 1988 (21.01.88), (Family: none)	1-8
A	JP 5-117241 A (Tetsuya ICHIKAWA), 14 May, 1993 (14.05.93), (Family: none)	1-8
X	TSUNENAGA, Mitsuru, et al., Effect of conformational change on chemiluminescence efficiency of 2-(2-hydroxyphenyl)-4, 5-diphenylimidazole possessing chelating ability, ITE Letters on Batteries, New Technologies & Medicines, Vol.4, No.5, pages 633 to 638, 2003	9
X	KIMURA, Masaru et al., Effect of conformational change on chemiluminescence efficiency of 2-(Ar)-4, 5-diphenyl-4H-hydroperoxy-H-imidazole; a new potential signaling system, ITE Letters on Batteries, New Technologies & Medicines, Vol.1, No.3, pages 418 to 421, 2000	9

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

A technical matter described in claim 1 is "an agent for generating heat and/or singlet oxygen which comprises an organic peroxide or a chemiluminescent compound." However, the "agent for generating heat and/or singlet oxygen which comprises an organic peroxide" and the "agent for generating heat and/or singlet oxygen which comprises a chemiluminescent compound" have no matter common to these with respect to the chemical structures of the compounds used. Furthermore, no matter which is regarded as "a special technical feature" common to these can be found.

The subject matters of claims 2-9 are the subject matter of claim 1 which (continued to extra sheet)

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet (2)

has been technically limited, a medicinal composition having the technical feature of claim 1, or a compound itself. Consequently, in these subject matters also, the subject matters in which "an organic peroxide" is a technical feature and the subject matters in which "a chemiluminescent compound" is a technical feature have no "special technical feature" common between these.